

# Objectives and Targets Are Essential in Reducing Environmental Impacts

# "Typical" EMS Process for Adopting Objectives and Targets/Action Plan/Resources



- Identify Activities which Could Impact the Environment
- Assemble List of Environmental Impacts
- Develop a Process to Identify Significant Impacts
- Assemble List of Significant Impacts
- Set Objectives and Targets for Significant Impacts
- Develop Action Plans
- Identify and Obtain Resources
- Identify and Report Metrics Associated with Objectives and Targets and Action Plans
- Review and Report Progress



Activity	Impact	Regulated	Community	Frequency	Score	
Operate Diesel Equipment	Degradation of Air Quality	1	1	5	5	
Stormwater Runoff from Composting Facility	Degradation of Surface Water Quality	3	1	5	15	
Hazardous Waste Spills	Degradation of Soil	5	5	1	25	
Solid Waste Disposal	Degradation of Air Quality	5	3	3	30	

### Reduce Greenhouse Gases by 5% by December 31, 2012 **Action Item** Responsibility **Due Date** Collect Baseline GHG Joe 10/1/2009 **Emissions Information** Publish Data on Website Frank 11/1/2009 1/30/2010 Convert Sedans to Norman Electric Implement Biodiesel 3/15/2010 Mary Program for On road fleet Investigate Methane 9/30/2010 Lynne Capture and Associated Implement Recycling 12/31/2011 John Program

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Investigate Methane Capture and Associated Costs	Lynne	9/30/2010	In Progress	G S

So Why Are We Addressing
Objectives and Targets Before
Identification of Significant
Impacts

### **Two Important Exceptions**

- Consider the Six Plan Components
  - Yard Waste Management
  - Hazardous Household Waste Collection
  - Water Quality Improvement
  - Greenhouse Gas Reduction
  - Recycling Services
  - Environmental Education

These are Significant Activities and Impacts!

 Potential Availability of Financial Resources for Assistance in the Development of the EMS and Objectives and Targets



Introduction to Objectives and Targets

## Objectives and Targets (HF 2570)

- Establish Specific and Measureable Environmental Goals for the Organization for Each of the Six Plan Components
- Targets Must be Specific and Quantifiable



## **Objectives and Targets**

- Objective Definition
  - The Objective is the Environmental Goal
  - The Overall Environmental Change You Want to Achieve
- Target Definition
  - Detailed Performance Requirement
  - Specific Outcome of the Objective
  - Targets are Necessary for Achieving the Stated Objectives
  - Targets are a Measureable Outcome of the Change



### **Examples**

- Reduce Greenhouse Gases by 5% by December, 31, 2012
- Implement an E-Waste Program by March, 15, 2011
- Reduce Water Consumption by 5% per Year
- Comply with Spill Prevention Control and Countermeasures Requirements by February 20, 2010



### Objectives and Targets - Iowa

- Six Plan Components Must Have an Associated Objective and Target
  - Objective and Target May Address More than One Component
  - Example Objective-- HHW Disposal Workshop
    - HHW Collection—Increase Collection by 5% by October 2012
    - Environmental Education
       – Educate 100 Residents in Planning
       Area by January 2011





### **Objectives and Targets Considerations**

- Six Plan Components
- EMS Fenceline
- Environmental Policy
- Legal and Other Requirements
- Views of Interested Parties
- Is It Reasonable?
- Available Technology?
- Financial, Operational, Staff Resources Available?



### **Objectives and Targets Considerations**

- While Setting Objectives and Targets, Consider How You Will Monitor and Measure?
- Is There Baseline Data Available?
- Is There Environmental Performance I Want to Measure Outside of My Objectives/Targets?



### **Building Objectives and Targets**

- Identify Existing Objectives and Targets
- If You are Starting From Scratch, Begin with Each of the Six Plan Components
  - Identify Potential Objectives and Targets
  - Discuss with Responsible Staff Members
  - Consider Building a Team Around Each Objective and Target
    - o Buy-In
  - Research Other Organizations
  - Gather Baseline Data, if Any
  - Draft Objectives and Targets; Review and Finalize with Management
  - Assign to Individual for Reporting Purposes



### Objectives and Targets – Best Practices

- Start with Existing Environmental Goals
- Set Objectives and Targets which are as Specific as Possible and Quantifiable
- Review and Receive Approval from Senior Management
- Be Practical, Understand your Organization's Limitations
  - Don't Over Commit
- Consider Availability of Baseline Information
- Ultimate Goal is to Reduce Environmental Impacts





### Objectives and Targets-San Diego

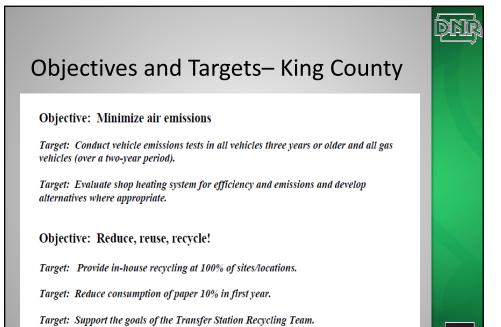
- 1) Fuel Use (Reduction)
  - 1.1 Heavy Equipment
     3% fuel use reduction in contracted heavy equipment.
  - 1.2 Stationary Equipment
     Review, and amend where necessary, operating procedures and maintenance activity
     to obtain optimum fuel efficiency.
  - 1.3 Support Vehicles
     5% fuel use reduction in Landfill Gas Management and Groundwater Monitoring programs.

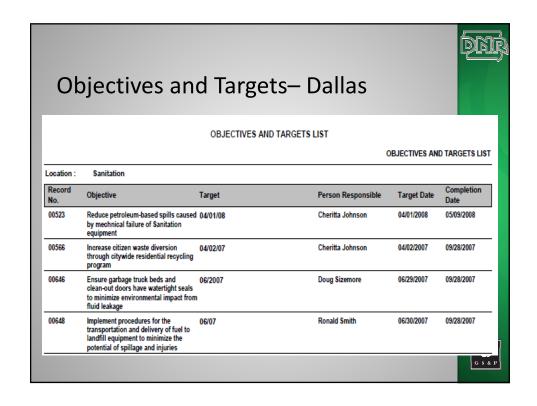


# Objectives and Targets-San Diego

- 3) Resource Conservation Effort (RCE)
  - 10% paper use reduction throughout division.
  - Complete landfill gas to LNG pilot project implementation and start-up at Chollas Landfill.
  - Complete landfill gas to energy feasibility study for Arizona Street landfill, select privatization vs. city operation, select firm if study data supports project.







Objectives	and Targets–	· Dallas		
Ensure dead animals are picked up and transported within 24 hours	01/07	Cheritta Johnson	01/31/2007	06/20/2007
Ensure that hazardous waste brought to waste facilities is delivered to HHW Center safely.	12/08	Stanley Davis	12/31/2008	09/28/2007
Prevent fires on garbage trucks through education of the public on what items are prohibited from regular garbage pick-up.	12/07	Cheritta Johnson	04/30/2008	05/09/2008
Reduce indoor dust at the Transfer Stations to improve air quality. Reduce outdoor dust occurring on the unimproved roadways at the Landfill; improve air quality and visibility.	12/07	Ronald Smith	12/31/2008	05/09/2008
Eliminate Administrative Notices of Enforcement (NOE) (Citywide)	Zero Administrative NOEs	Carlissa Ailey	10/14/2012	
Decrease the Number of Petroleum-based Spills Caused by City Operations (Citywide)	Reduce the number of Preventable and Reportable spills by 15%.	Carlissa Ailey	12/31/2012	
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### **Action Plans**

- Road Map for Achieving the Objectives and Targets
  - Can Be As Specific or as General According to Organizational Needs
- Listing of Specific Tasks or Activities with Assigned Responsibilities and Associated Due Dates
- Consider Needed Resources
  - Financial, Staff, Equipment, Etc.
- Action Plan Items May Require Input from External Parties (Outside Fenceline)
  - Consider Ability to Control Schedules and Priorities

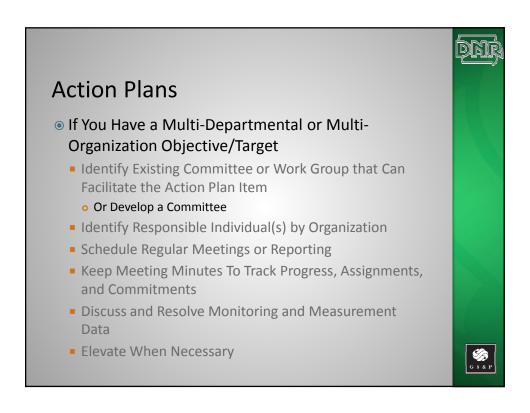


### **Action Plans**

- Set Action Plans for Each Objective/Target
  - Responsible Person/Is there a Team or Committee?
  - Schedule with Steps for Implementation
  - Monitoring and Measurement
  - Costs
- Determine a Schedule and Method for Periodic Review/Update
- Don't Forget to Document the Action Plan with Objectives and Targets



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### **Action Plan Implementation**

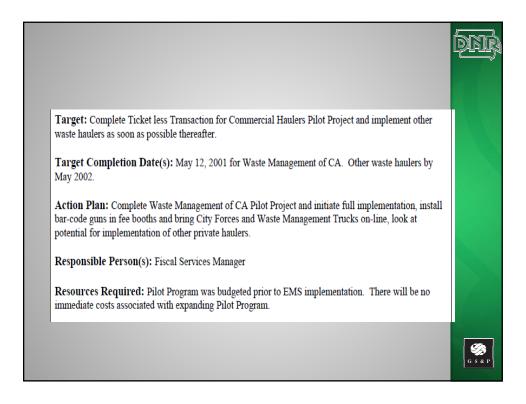
- Implement a Process for Reporting and Tracking
  - Keeps the EMS and Objectives and Targets on Track
  - Allow for Reassignment if Needed
  - Require Reporting on a Schedule
    - o Monthly, Quarterly, Semi-Annually
  - Especially Important for Action Items that Are in Sequential Progression
- Update Objectives and Targets and Associated Action Plans as Needed

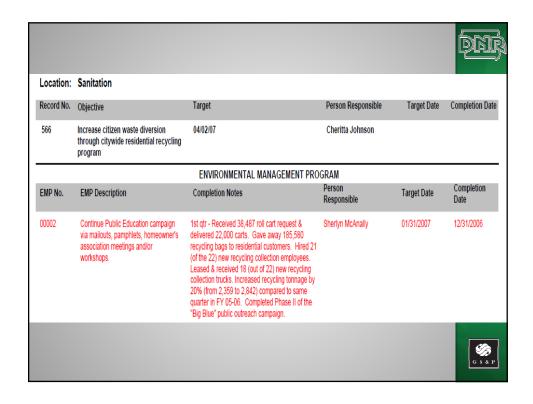


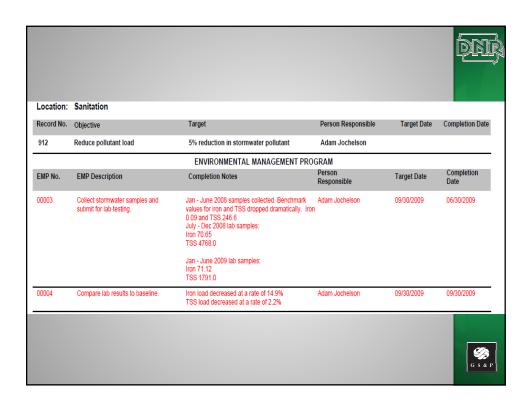
### **Action Plans- Best Practices**

- Make the Action Plans Work for Your Organization
  - Consider Amount of Detail and Information in the Action Plan to Achieve the Desired Result
- Evaluate Existing Management and Reporting Tools to Achieve the Action Plan Items
  - Don't Re-Invent the Wheel





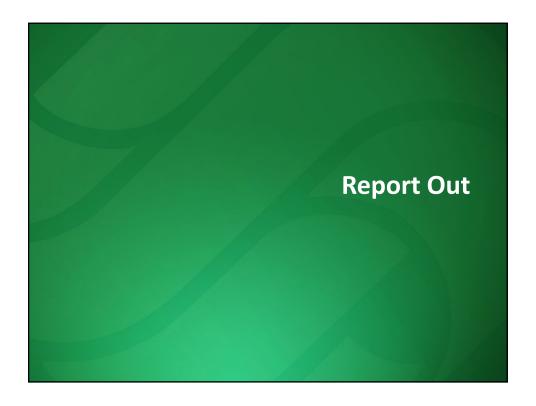




### Objectives, Targets and Action Plans– Exercise

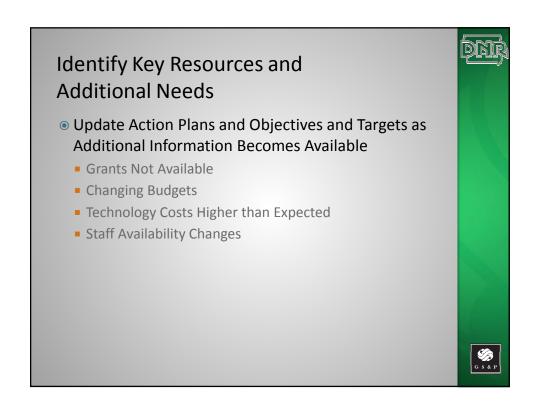
- You are the EMS Core Team Developing an EMS in Your Household. Use the Following Activities and Impacts to Develop Objectives and Targets with Associated Action Plans for Each...Keeping in Mind the Six Components of an EMS. Fill in as Many as You Can.
  - Washing Dishes
  - Mowing the Lawn
  - Waste Generation
  - Use of Lighting



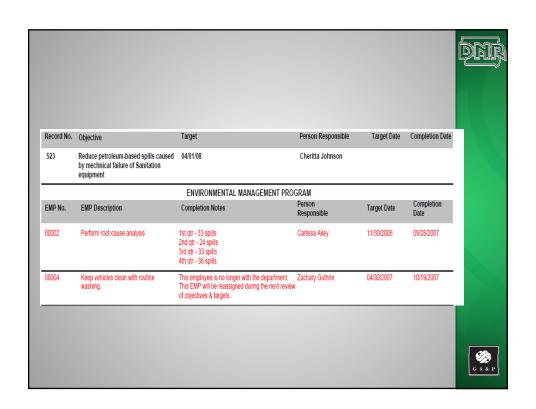


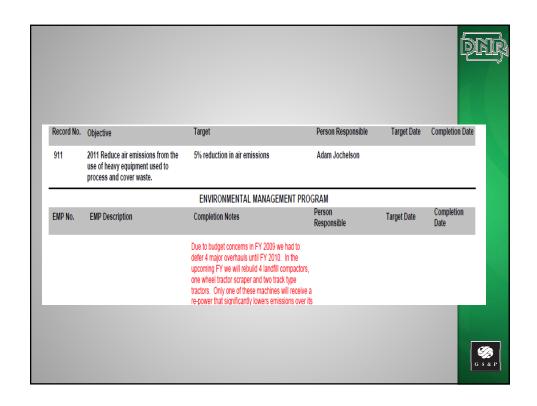






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Reducing Environmental Impacts
is the Main Focus of the EMS =
This is Achieved Through
Objectives and Targets and Action
Plans



